Docket No. END-5043 CIP2

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Mast, T. Douglas, et al.

Serial No.: 10/735,045

Art Unit: 3737

Filed

: December 12, 2003 Examiner: Not Assigned

For

: Method for Mapping Temperature Rise Using Pulse-

Echo Ultrasound

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner For Patents, PO Box 1450, Alexandria, VA 22313-1450 on

> August 24 2004

> > Linda F. Hansen

(Name of applican

August 2004

(Date of Signature)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

## SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This copy is supplemental to the Information Disclosure Statement mailed on December 12, 2003 and July 27, 2004.

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the aboveidentified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

Applicant(s) reserve(s) the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

In accordance with \$1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified national application (other than a continued prosecution application under \$1.53(d)), within three months of the date of entry into the national stage of the above identified application as set forth in \$1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of a request for continued examination under \$1.114, no additional fee is required.

∐ In ac	ccordance with \$1.129(a), this information
Disclosure Stat	tement is being filed in connection with $\square$ the
first or 🗌 seco	and After Final Submission, therefore:
	Statement in Accordance with \$1.97(e)
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	Please charge Deposit Account No. 10-
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In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or an action that otherwise closes prosecution and that it is accompanied by one of:

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		(attached); or
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		in §1.17(p).
	In ac	ccordance with \$1.97(d), this Information
Disclosure	e Stat	ement is being filed after the mailing date of
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Applicant (	(s) he	reby petition(s) for consideration of this
Informatio	on Dis	closure Statement. Included are: Statement in
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	-	es of each of the non-US patent references listed
on the att	cached	Form PTO-1449 are enclosed herewith.
П	Copie	es of references listed on the attached Form PTO-
 1449 are е	_	ed herewith EXCEPT THAT:
		In view of the voluminous nature of references
	U.	[list as appropriate], and the likelihood that
		these references are available to the Examiner,
		copies are not enclosed herewith.
		copies are not encrosed nerewren.
	$\Box$	If any of the foregoing publications are not
		available to the Examiner, Applicant will
		endeavor to supply copies at the Examiner's
		request.
		<u></u>
$\boxtimes$	There	e are no listed references which are not in the

English language.

	The relevance of those listed references which are
not in the	e English language is as follows:
	Attached are copies of the International Preliminary
Examinatio	on Report from corresponding patent application(s),
which are	listed on the attached Submission Under MPEP 609 D.
	Copies of the references listed on the search
report(s)	are included except for those previously cited in an
IDS mailed	d .
	Attached are the following non-published pending
patent app	plications which may be deemed relevant, which are
listed on	the attached Submission Under MPEP 609 D.
Pleas	se charge any deficiency or credit any overpayment to

Deposit Account No. 10-0750/END-5043 CIP2/VEK.

Respectfully submitted,

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35,231

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DATED: August **26**, 2004

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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December 12, 2003
T. Douglas Mast, et al.
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END-5043 CIP2

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	U.S. PATENT DO	CUMENTS

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		U.S. Patent Document	J		
Examin er Initials	Cit e No	Kind Code <sup>2</sup> Number (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, where relevant passages or relevant figures appear
		D 22 500	D	mm-dd-yyyy 5/21/1991	ALL
		Re33,590	Dory		
<u> </u>	,	4,315,514	Drewes et al.	2/16/1982	ALL
		4,323,077	Smith	4/6/1982	ALL
		4,484,569	Driller et al.	11/27/1984	ALL
		4,646,756	Watnough et al.	3/3/1987	ALL
		4,757,820	Itoh	7/19/1988	ALL
		4,787,394	Ogura	11/29/1988	ALL
		4,818,954	Flachenecker et al.	4/4/1989	ALL
		4,858,613	Fry et al.	8/22/1989	ALL
	·	4,932,414	Coleman et al.	6/12/1990	ALL
		4,951,653	Fry et al.	8/28/1990	ALL
		4,955,365	Fry et al.	9/11/1990	ALL
		4,955,366	Uchiyama et al.	9/11/1990	ALL
		4,960,107	Aida et al.	10/2/1990	ALL
		4,984,575	Uchiyama et al.	1/15/1991	ALL
		4,986,275	Ishida et al.	1/22/1991	ALL
		5,015,929	Cathignol et al.	5/14/1991	ALL
		5,036,855	Fry et al.	8/6/1991	ALL
		5,054,470	Fry et al.	10/8/1991	ALL
		5,065,740	Itoh	11/19/1991	ALL
·		5,078,144	Sekino et al.	1/7/1992	ALL
		5,080,101	Dory	1/14/1992	ALL
		5,080,102	Dory	1/14/1992	ALL

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Application No. 10/735,045

Docket No. END-5043 CIP2

Page 2 of 6

₩		1490 1 01 0		
ART	5,095,907	Kudo et al.	3/17/1992	ALL
	5,143,073	Dory	9/1/1992	ALL
	5,143,074	Dory	9/1/1992	ALL
	5,149,319	Unger	9/22/1992	ALL
	5,150,711	Dory	9/29/1992	ALL
	5,150,712	Dory	9/29/1992	ALL
	5,158,070	Dory	10/27/1992	ALL
	5,158,071	Umemura et al.	10/27/1992	ALL
	5,203,333	Nomura	4/20/1993	ALL
	5,209,221	Riedlinger	5/11/1993	ALL
	5,240,005	Viebach	8/31/1993	ALL
	5,295,484	Marcus et al.	3/22/1994	ALL
	5,304,115	Pflueger, Russell et al.	4/19/1994	ALL
, , , , , ,	5,311,869	Okazaki	5/17/1994	ALL
,	5,354,258	Dory	10/11/1994	ALL
	5,391,140	Schaetzle et al.	2/21/1995	ALL
	5,402,792	Kimura	4/4/1995	ALL
	5,409,002	Pell	4/25/1995	ALL
	5,431,663	Carter	7/11/1995	ALL
	5,435,304	Oppelt et al.	7/25/1995	ALL
	5,435,311	Umemura et al.	7/25/1995	ALL
	5,443,069	Schaetzle	8/22/1995	ALL
	5,448,994	Iinuma	9/12/1995	ALL
<i>;</i>	5,471,988	Fujio et al.	12/5/1995	ALL
	5,474,071	Chapelon et al.	12/12/1995	ALL
	5,485,839	Aida et al.	1/23/1996	ALL
	5,520,188	Hennige et al.	5/28/1996	ALL
	5,522,869	Burdette et al.	6/4/1996	ALL
	5,524,620	Rosenschein	6/11/1996	ALL
	5,526,815	Granz et al.	6/18/1996	ALL
	5,526,822	Burbank et al	6/18/1996	ALL

Application No. 10/735,045Docket No. END-5043 CIP2 Page 3 of 6

Editor	5,540,656	Pflueger et al.	7/30/1996	ALL
Eide	5,545,195	Lennox et al.	8/13/1996	ALL
	5,549,638	Burdette	8/27/1996	ALL
	5,569,241	Edwards	10/29/1996	ALL
	5,571,088	Lennox et al.	11/5/1996	ALL
	5,573,497	Chapelon	11/12/1996	ALL
	5,575,772	Lennox	11/19/1996	ALL
	5,575,789	Bell et al.	11/19/1996	ALL
	5,582,588	Sakurai et al.	12/10/1996	ALL
	5,588,432	Crowley	12/31/1996	ALL
	5,590,657	Cain et al.	1/7/1997	ALL
	5,601,526	Chapelon et al.	2/11/1997	ALL
	5,620,479	Diederich	4/15/1997	ALL
	5,624,382	Oppelt et al.	4/29/1997	ALL
	5,628,743	Cimino	5/13/1997	ALL
	5,643,179	Fujimoto	7/1/1997	ALL
	5,649,547	Ritchart et al.	7/22/1997	ALL
	5,665,054	Dory	9/9/1997	ALL
	5,666,954	Chapelon et al.	9/16/1997	ALL
	5,676,692	Sanghvi et al.	10/14/1997	ALL
	5,687,729	Schaetzle	11/18/1997	ALL
	5,694,936	Fujimoto et al.	12/9/1997	ALL
	5,697,897	Buchholtz et al.	12/16/1997	ALL
	5,699,804	Rattner	12/23/1997	ALL
	5,703,922	Rattner	12/30/1997	ALL
	5,720,287	Chapelon et al.	2/24/1998	ALL
	5,722,411	Suzuki et al.	3/3/1998	ALL
	5,728,062	Brisken	3/17/1998	ALL
	5,733,315	Burdette et al.	3/31/1998	ALL
	5,735,280	Sherman et al.	4/7/1998	ALL
	5,735,796	Granz et al.	4/7/1998	ALL
-	5,738,635	Chapelon et al.	4/14/1998	ALL
	5,743,862	Izumi	4/28/1998	ALL
	5,743,863	Chapelon	4/28/1998	ALL

AUG 3 0 7004 PA	application No. 10	0/735,045 Docket No. E		.ge 4
TRACE HALL	5,746, 224	Edwards	5/5/1998	ALL
	5,759,162	Oppelt et al.	6/2/1998	ALL
	5,762,066	Law et al.	6/9/1998	ALL
	5,769,086	Ritchart et al.	6/23/1998	ALL
	5,769,790	Watkins et al.	6/23/1998	ALL
	5,788,636	Curley	8/4/1998	ALL
	5,800,379	Edwards	9/1/1998	ALL
	5,807,308	Edwards	9/15/1998	ALL
	5,817,021	Reichenberger	10/6/1998	ALL
	5,817,049	Edwards	10/6/1998	ALL
	5,820,580	Edwards et al.	10/13/1998	ALL
	5,823,962	Schaetzle et al.	10/20/1998	ALL
	5,836,896	Rosenschein	11/17/1998	ALL
	5,840,031	Crowley	11/24/1998	ALL
	5,860,974	Abele	1/19/1999	ALL
	5,873,828	Fujio et al.	2/23/1999	ALL
	5,873,845	Cline et al.	2/23/1999	ALL
	5,873,902	Sanghvi et al.	2/23/1999	ALL
	5,882,302	Driscoll, Jr. et al.	3/16/1999	ALL
	5,895,356	Andrus et al.	4/20/1999	ALL
	5,897,495	Aida et al.	4/27/1999	ALL
	5,928,169	Schatzle et al.	7/27/1999	ALL
	5,938,600	Van Vaals et al.	8/17/1999	ALL
	5,938,608	Bieger et al.	8/17/1999	ALL
	5,944,663	Kuth et al.	8/31/1999	ALL
	5,964,755	Edwards	10/12/1999	ALL
	5,984,881	Ishibashi et al.	11/16/1999	ALL
	5,984,882	Rosenschein et al.	11/16/1999	ALL
	5,993,389	Driscoll, Jr. et al.	11/30/1999	ALL
	6,004,269	Crowley et al.	12/21/1999	ALL
<u> </u>	6,007,499	Martin et al.	12/28/1999	ALL
	6,024,718	Chen et al.	2/15/2000	ALL
	6,024,740	Lesh et al.	2/15/2000	ALL

Application No. 10/735,045 Docket No. END-5043 CIP2 Page 5 of 6 ALL 3/21/2000 Lizzi 6,039,689 6,042,556 Beach et al. 3/28/2000 ALL ALL 4/18/2000 6,050,943 Slayton et al. ALL 6,053,868 Vesely et al. 04/25/2000 ALL 05/16/2000 6,063,050 Manna et al. ALL Li et al. 5/23/2000 6,066,123 6,071,238 Chapelon et al. 6/6/2000 ALL 6,071,239 Cribbs et al. 6/6/2000 ALL 6,083,159 Driscoll, Jr. et al. 7/4/2000 ALL Ishibashi et al. 7/11/2000 ALL 6,086,535 7/11/2000 ALL 6,088,613 Unger 8/22/2000 ALL 6,106,517 Zupkas ALL Rosenschein et al. 9/5/2000 6,113,558 ALL 6,117,101 Diederich et al. 9/12/2000 ALL Hutchinson et al. 10/24/2000 6,135,971 02/27/2001 ALL 6,193,709 Miyawaki et al. ALL 4/3/2001 6,210,330 Tepper Kramer et al. 3/5/2002 ALL 6,352,532 ALL Blanc et al. 4/16/2002 6,371,903 ALL 6,156,029 Mueller 12/05/2000 ALL Yoon 12/12/2000 6,159,207 ALL 02/27/2001 6,193,709 Miyawaki et al. ALL В1 04/25/2001 6,221,014 Bauer ALL Vesely et al. 06/12/2001 6,246,898 ALL 07/30/2002 6,425,867 **B**1 Vaezy et al.

Application No. 10/735,045 Docket No. END-5043 CIP2
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FOREIGN PATENT DOCUMENTS

Examin	Cit	Foreig Docu	gn Patent nent		Name of Patentee	-	Date of Publication of Cited	Pages, Columns, Lines, where relevant passages	T <sup>6</sup>
er Initials	e No	Office Kind(		4	Applicant of Cited Document	ed	Document or relevant figures appear		
	•	JP	10-14967		Shimadzu Corp.		1/20/1998	ALL	,
		wo	01/45550	A2	Therus Corporatio	n	6/28/2001	ALL	
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ure			
		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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